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NOTICE OF ALLOWANCE AND FEE(S) DUE

29669

7590

02/27/2009

PEARSON & PEARSON, LLP 10 GEORGE STREET LOWELL, MA 01852 EXAMINER

JONAITIS, JUSTIN M

ART UNIT PAPER NUMBER

3752 DATE MAILED: 02/27/2009

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
10/561.687	01/04/2007	Keith Laidler	33920	1188	

TITLE OF INVENTION: NOZZLE ARRANGEMENTS

APPLN. TYPE	SMALL ENTITY	ISSUE FEE DUE	PUBLICATION FEE DUE	PREV. PAID ISSUE FEE	TOTAL FEE(S) DUE	DATE DUE
nonprovisional	NO	\$1510	\$300	\$0	\$1810	05/27/2009

THE APPLICATION IDENTIFIED ABOVE HAS BEEN EXAMINED AND IS ALLOWED FOR ISSUANCE AS A PATENT. PROSECUTION ON THE MERITS IS CLOSED. THIS NOTICE OF ALLOWANCE IS NOT A GRANT OF PATENT RIGHTS. THIS APPLICATION IS SUBJECT TO WITHDRAWAL FROM ISSUE AT THE INITIATIVE OF THE OFFICE OR UPON PETITION BY THE APPLICANT. SEE 37 CFR 1.313 AND MPEP 1308.

THE ISSUE FEE AND PUBLICATION FEE (IF REQUIRED) MUST BE PAID WITHIN THREE MONTHS FROM THE MAILING DATE OF THIS NOTICE OR THIS APPLICATION SHALL BE REGARDED AS ABANDONED. THIS STATUTORY PERIOD CANNOT BE EXTENDED. SEE 35 U.S.C. 151. THE ISSUE FEE DUE INDICATED ABOVE DOES NOT REFLECT A CREDIT FOR ANY PREVIOUSLY PAID ISSUE FEE IN THIS APPLICATION. IF AN ISSUE FEE HAS PREVIOUSLY BEEN PAID IN THIS APPLICATION (AS SHOWN ABOVE), THE RETURN OF PART B OF THIS FORM WILL BE CONSIDERED A REQUEST TO REAPPLY THE PREVIOUSLY PAID ISSUE FEE TOWARD THE ISSUE FEE NOW DUE.

HOW TO REPLY TO THIS NOTICE:

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If the SMALL ENTITY is shown as YES, verify your current SMALL ENTITY status:

A. If the status is the same, pay the TOTAL FEE(S) DUE shown above

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B. If applicant claimed SMALL ENTITY status before, or is now claiming SMALL ENTITY status, check box 5a on Part B - Fee(s) Transmittal and pay the PUBLICATION FEE (if required) and 1/2 the ISSUE FEE shown above.

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III. All communications regarding this application must give the application number. Please direct all communications prior to issuance to Mail Stop ISSUE FEE unless advised to the contrary.

IMPORTANT REMINDER: Utility patents issuing on applications filed on or after Dec. 12, 1980 may require payment of maintenance fees. It is patentee's responsibility to ensure timely payment of maintenance fees when due.

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Complete and send this form, together with applicable fee(s), to: Mail Mail Stop ISSUE FEE

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maintenance fee notifical	tions.							orrespondence address as ate "FEE ADDRESS" for	
CURRENT CORRESPONDENCE ADDRESS (Note: Use Block 1 for any change of address)					Note: A certificate of mailing can only be used for domestic mailings of the Fee(s) Transmittal. This certificate cannot be used for any other accompanying papers. Each additional paper, such as an assignment or formal drawing, must have its own certificate of mailing or transmission.				
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PEARSON & I 10 GEORGE ST LOWELL, MA				I her State addre trans	eby certify that this Postal Service wessed to the Mail mitted to the USP.	in Fee(vith suf Stop ΓΟ (57	e of Mailing or Transm s) Transmittal is being fficient postage for first ISSUE FEE address a 1) 273-2885, on the da	deposited with the United class mail in an envelope bove, or being facsimile indicated below.	
								(Depositor's name)	
								(Signature)	
								(Date)	
APPLICATION NO.	FILING DATE		FIRST NAMED INVEN	TOR		ATTO	RNEY DOCKET NO.	CONFIRMATION NO.	
10/561,687	01/04/2007	I	Keith Laidler				33920	1188	
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nonprovisional	NO	\$1510	\$300	\$0			\$1810	05/27/2009	
EXAM	INER	ART UNIT	CLASS-SUBCLASS	s					
JONAITIS,	JUSTIN M	3752	239-569000						
1. Change of corresponde	ence address or indication	n of "Fee Address" (3	7 2. For printing on	the pa	atent front page, lis	t			
CFR 1.363). Change of correspond	ondence address (or Cha	nge of Correspondence	(1) the names of to or agents OR, alte	up to	3 registered paten elv.	t attorr	neys 1		
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PTO/SB/47; Rev 03-0 Number is required.	ication (or "Fee Address' 2 or more recent) attach	" Indication form ted. Use of a Customo	(2) the name of a single firm (having as a member a registered attorney or agent) and the names of up to 2 registered patent attorneys or agents. If no name is listed, no name will be printed.						
3. ASSIGNEE NAME A	ND RESIDENCE DATA	A TO BE PRINTED C	ON THE PATENT (print of	or typ	e)				
PLEASE NOTE: Unl recordation as set fort	ess an assignee is ident h in 37 CFR 3.11. Comp	ified below, no assign pletion of this form is	nee data will appear on t NOT a substitute for filin	the pa	tent. If an assigne	ee is io	dentified below, the do	cument has been filed for	
(A) NAME OF ASSIG	-		(B) RESIDENCE: (C	•		OUNT	TRY)		
Please check the appropri	iate assignee category or	categories (will not b	e printed on the patent):	Ч	Individual 🖵 Co	rporati	ion or other private grou	p entity Government	
4a. The following fee(s)	are submitted:				se first reapply an	ıy prev	viously paid issue fee sl	nown above)	
Issue Fee	To small entity discount p	itto J	☐ A check is enclosed. ☐ Payment by credit card. Form PTO-2038 is attached.						
	# of Copies		The Director is hereby authorized to charge the required fee(s), any deficiency, or credit any						
			overpayment, to	Depos	sit Account Numbe	er	(enclose an	extra copy of this form).	
5. Change in Entity Stat	tus (from status indicated s SMALL ENTITY statu		☐ b. Applicant is no	o long	er claiming SMAI	L EN	TITY status. See 37 CF	R 1.27(g)(2)	
**			**	_				assignee or other party in	
interest as shown by the i	records of the United Sta	tes Patent and Traden	nark Office.						
Authorized Signature					Date				
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This collection of inform an application. Confident submitting the completed this form and/or suggesti	ation is required by 37 C tiality is governed by 35 I application form to the ons for reducing this bu	CFR 1.311. The inform U.S.C. 122 and 37 C USPTO. Time will wrden, should be sent to	nation is required to obtain FR 1.14. This collection vary depending upon the to the Chief Information C	n or re is esti indivi Office	etain a benefit by the mated to take 12 r dual case. Any co r, U.S. Patent and	he publ ninutes mment Traden	lic which is to file (and s to complete, including ts on the amount of tim nark Office, U.S. Depar	by the USPTO to process) gathering, preparing, and e you require to complete tment of Commerce, P.O.	

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APPLICATION NO. FILING DATE		FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.			
10/561,687 01/04/2007		Keith Laidler	33920	1188			
29669 75	90 02/27/2009		EXAMINER				
PEARSON & PE	CARSON, LLP		JONAITIS, JUSTIN M				
10 GEORGE STRI			ART UNIT	PAPER NUMBER			
LOWELL, MA 01	852		3752				
		DATE MAILED: 02/27/2009					

Determination of Patent Term Adjustment under 35 U.S.C. 154 (b)

(application filed on or after May 29, 2000)

The Patent Term Adjustment to date is 360 day(s). If the issue fee is paid on the date that is three months after the mailing date of this notice and the patent issues on the Tuesday before the date that is 28 weeks (six and a half months) after the mailing date of this notice, the Patent Term Adjustment will be 360 day(s).

If a Continued Prosecution Application (CPA) was filed in the above-identified application, the filing date that determines Patent Term Adjustment is the filing date of the most recent CPA.

Applicant will be able to obtain more detailed information by accessing the Patent Application Information Retrieval (PAIR) WEB site (http://pair.uspto.gov).

Any questions regarding the Patent Term Extension or Adjustment determination should be directed to the Office of Patent Legal Administration at (571)-272-7702. Questions relating to issue and publication fee payments should be directed to the Customer Service Center of the Office of Patent Publication at 1-(888)-786-0101 or (571)-272-4200.

	Applicati	on No.	Applicant(s)				
	 10/561,68	37	LAIDLER ET AL.				
Notice of Allowability	Examine		Art Unit				
	JUSTIN J	ONAITIS	3752				
The MAILING DATE of this communication appearable All claims being allowable, PROSECUTION ON THE MERITS IS herewith (or previously mailed), a Notice of Allowance (PTOL-85) NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIOF of the Office or upon petition by the applicant. See 37 CFR 1.313	(OR REMA or other ap IGHTS. Th	AINS) CLOSED in this appropriate communication is application is subject to	plication. If not include will be mailed in due	ed course. THIS			
1. This communication is responsive to							
2. The allowed claim(s) is/are <u>1-23</u> .							
 3. Acknowledgment is made of a claim for foreign priority ur a) All b) Some* c) None of the: 1. Certified copies of the priority documents have 2. Certified copies of the priority documents have 3. Copies of the certified copies of the priority documents have International Bureau (PCT Rule 17.2(a)). * Certified copies not received: 	e been rece e been rece	ived. ived in Application No		tion from the			
Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application. THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.							
4. A SUBSTITUTE OATH OR DECLARATION must be subm INFORMAL PATENT APPLICATION (PTO-152) which give				OTICE OF			
5. CORRECTED DRAWINGS (as "replacement sheets") mus	st be submi	tted.					
(a) ☐ including changes required by the Notice of Draftspers	son's Paten	t Drawing Review (PTO-	948) attached				
1) 🗌 hereto or 2) 🔲 to Paper No./Mail Date							
Paper No./Mail Date	(b) ☐ including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date						
Identifying indicia such as the application number (see 37 CFR 1 each sheet. Replacement sheet(s) should be labeled as such in t				back) of			
6. DEPOSIT OF and/or INFORMATION about the depo attached Examiner's comment regarding REQUIREMENT				Note the			
Attachment(s) 1. ☑ Notice of References Cited (PTO-892) 2. ☐ Notice of Draftperson's Patent Drawing Review (PTO-948) 3. ☑ Information Disclosure Statements (PTO/SB/08), Paper No./Mail Date 03/27/2006 & 11/27/2006		5. ☐ Notice of Informal P 6. ☐ Interview Summary Paper No./Mail Dat 7. ☑ Examiner's Amendr	(PTO-413), ie ment/Comment	wychoo			
Examiner's Comment Regarding Requirement for Deposit of Biological Material		3. ⊠ Examiner's Stateme	ent of Neasons Iof Allo	vyalice			
/JUSTIN JONAITIS/ Examiner, Art Unit 3752		/Len Tran/ Supervisory Patent Examiner, Art Unit 3752					



Application No.

Application/Control Number: 10/561,687 Page 2

Art Unit: 3752

EXAMINER'S AMENDMENT

An examiner's amendment to the record appears below. Should the changes and/or additions be unacceptable to applicant, an amendment may be filed as provided by 37 CFR
 To ensure consideration of such an amendment, it MUST be submitted no later than the payment of the issue fee.

The application has been amended as follows:

In the claims:

In claim 4 line 2 "position" has been changed to -positioned--.

In claim 22 line 2 "position" has been changed to -positioned--.

Allowable Subject Matter

2. The following is an examiner's statement of reasons for allowance: As to claim 1, the prior art of reference does not disclose an internal fluid flow passage way comprising a first orifice-defining portion, and a flap having a second orifice defining portion, where the first orifice-defining portion and second orifice-defining portion are disposed apart when the flap is in it's first position and the first and second orifice defining positions are proximate to one another, defining an orifice through which fluid flowing through the nozzle arrangement must pass, when the flap is in another position.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

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Art Unit: 3752

Conclusion

3. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure. U.S. Patent #6,959,879 to Laidler et al. discloses a nozzle arrangement with similar structire but lacks a flap. U.S. Patent #7,328,819 to Lewis discloses an apparatus which uses a flap valve but does not have orifice defining portions. U.S. Patent #6,131,568 to Denyer et al. discloses a device that makes use of a flap valve. U.S. Patent #5,309,961 to Franke et al. discloses a nozzle with flaps that alters the flow of a fluid. U.S. Patent #5,615,835 to Nelson discloses a nozzle which has a flap to prevent backflow.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to JUSTIN JONAITIS whose telephone number is (571)270-5150. The examiner can normally be reached on Monday - Thurs 6:30am - 5:00 pm EST.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Len Tran can be reached on (571)272-1184. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

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Art Unit: 3752

/JUSTIN JONAITIS/ Examiner, Art Unit 3752

/Len Tran/

Supervisory Patent Examiner, Art Unit 3752